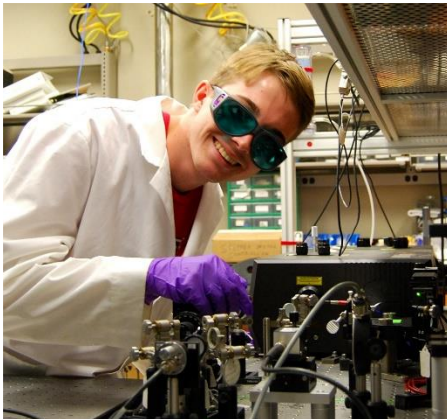


REAP | University of Central Florida 2015

Jayk, a student at Hagerty High School, is spending his summer researching in Dr. Stephen Kuebler's nano-photonic materials lab at the University of Central Florida (Orlando, FL, npm.creol.ucf.edu), through the 2015 AEOP-REAP Program.

Jayk uses a kind laser-based nano-scale 3D printing to produce optically functional 3D micro-structures. He explores the chemical, physical, and optical properties of these structures in order to determine how the processing conditions affect their properties.



Jayk aligns a high powered laser in order to fabricate micro-structures.



Jayk sputter coats samples in preparation for scanning electron microscope imaging.

Jayk will attend the University of Central Florida to study Mechanical Engineering. He says, "I think that receiving a hands-on research experience through the REAP program before coming to college **will help me be better prepared for the courses and labs I intend to take and ultimately make me a successful scientist.**"

REAP is just one element of the Army Educational Outreach Program. The AEOP is comprised of Army-sponsored competitions, internships education opportunities, and research and practical experiences designed to engage and guide students as well as teachers in science, technology, engineering, and mathematics (STEM).